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RETOH-Walker Beckling

4-1449

Dames & Moore.

Miami Fort and Walter C. Beckjord Generating
Stations 316(b) Study: First Quarterly Data
Presentation, April 1, 1977 to June 30, 1977.

Docket # W-00-32

MIAMI FORT AND WALTER C. BECKJORD GENERATING STATIONS 316 (b) STUDY FIRST QUARTERLY DATA PRESENTATION APRIL 1, 1977 TO JUNE 30, 1977

Dames & Moore September 16, 1977 Job. No. 02580-025-17





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September 16, 1977

Cincinnati Gas & Electric Company 315-355 Main Street Cincinnati, OH

Attention: Mr. James D. Flynn

Manager, Licensing & Environmental

Affairs Department

Gentlemen:

Attached to this letter are the data collected by Dames & Moore on fish impingement and entrainment at your Miami Fort and Walter C. Beckjord Generating Stations during the first quarter of our sampling program, April through June. As indicated by the tabs, the data are organized into two sections by type of information: entrainment or impingement. Each of these sections are further divided to present monthly and daily summaries for each of the four intakes (Miami Fort, Beckjord 1, 2, and 3). In the case of the Beckjord Station, intake 1 is the one farthest downstream and serves Units 1 and 2; intake 2 serves Units 3 and 4; and intake 3 serves Units 5 and 6.

At this point in time, we have not analyzed these data; however, it should be noted that in the case of impingement, at times fish may be seen on the traveling screens but they cannot be retrieved. For these fish no weights or lengths can be measured and these entries are seen as blanks in the appropriate columns on the daily and monthly impingement tables.

The purpose of this report is to acquaint you with the data as we have seen them. If you have any questions concerning the results or presentations, please call.

Very truly yours,

RFH:MS Attachments

TABLE

MONTHLY ENTRAINMENT SUMMARY FOR APRID MIAMI FORT GENERATING STATION

ORGANISM .	TYPE SPECIES NAME	TOTAL ENT.	NO. PER 100 M**3	NUMBER EXPECTED PER DAYS
				SAMPLED
FISH EGGS	NO DRGANISMS	OF THIS TYPE	ENTRAINED IN	APRIL
FISH LARV	AE			
	NOT IDENTIFIED	83	76.85	2734454
	FRESHWATER DRUM	3	2.77	98561
	SAUGER	22	23.37	724799
	CARP	1	0.92	32735
	MICROPTERUS SPP.	2	1.85	65826
	SUCKER FAMILY	39	36.11	284856
TETALS		ages ages ages ages ages after date ages and after ages at		
	FISH EGGS	-j	0.00	
	FISH LARVAE	150	138.88	4,941,588
* NUMBER	OF DAYS SAMPLED DURING THIS	MCNTH WAS 3		-

TABLE

MONTHLY ENTRAINMENT SUMMARY FOR MAY MIAMI FORT GENERATING STATION

CRGANISM	TYPE SPECIES NAME	TOTAL ENT.	NO. PER 10' M**3	NUMBER EXPECTED PER DAYS SAMPLED >
FISH EGGS	ND DRGANISMS OF	THIS TYPE	FNTRAINED IN	MAY
FISH LARV	AE			
	NOT IDENTIFIED	34	117.24	2366937
	FRESHWATER DRUM	-	2 ♦ • 62	417564
	EMERALD SHINER	1	3.44	69507
	CARP	12	41.37	8 3534 8
	MINNOW FAMILY	5	17.24	348056
	SHINERS (NOTROPIS SPP.)	15	52.06	1253012
	SHAD SPP.	<u> </u>	13.79	278449
TOTALS				
	FISH EGGS	Э	0.00	0
	FISH LARVAE	8 ೨	275.86	5569033
* NUMBER	OF DAYS SAMPLED DURING THIS ME	ONTH WAS 2		

TABLE

MONTHLY ENTRAINMENT SUMMARY FOR JUNE MIAMI FORT GENERATING STATION

CEGANISM	TYPE	JATOT	NO. PER	NUMBER EXPECTED
	SPECIES NAME	FNT.	105 M**2	PER DAYS Sampled *
FISH FGGS	NO ORGANISMS	OF THIS TYPE	ENTEAINED I	N JUNE
FISH LARV	ΣĘ			
	NOT IDENTIFIED	2.3	15.13	567854
	GIZZARD SHAD	1	0.65	24656
	FRESHWATER DRUM	55	36.18	1357958
	EMERALD SHINER	۵	2.63	98739
	CARP	۵	2.63	98739
	WHITE BASS	14	9.21	(345544)
	SUCKER FAMILY	4	2.63	98739
	SHAD SPP.	100	55.78	2469011
	LEPOMIS SP.	1	€.65	24556
TCTALS				
	FISH EGGS	Ú	ଡ.⊅୍	ξ
	FISH LARVAE	206	135.52	5086187
* NUMBER	OF DAYS SAMPLED DURING THIS	MONTH WAS 5		

MONTHLY IMPINGEMENT SUMMARY FOR APPIL MIAMI FORT GENERATING STATION

TOTAL PERCENT TOTAL PRECENT LENGTH NUMBER BY WRIGHT BY MIN MEAN MAX COMMON NAME NUMBER (GMS) WEIGHT

TOTALS

0 .00 0 .00

NUMBER OF DAYS SAMPLED DURING THIS MONTH WAS 3

TABLE

MONTHLY IMPINGEMENT SUMMARY FOR MAY MIAMI FORT GENERATING STATION

COMMON	NUMBER	PERCENT EY NUMBER	TOTAL WEIGHT (GMS)	PERCENT EY WEIGHT	LENGTH		
NAME					MIN	MEAN	MAX
GOLDEN REDHORSE SAUGER. EMERALD SHINER RIVER CARPSUCKER WHITE CRAPPIE CHANNEL CATFISH FRESHWATER DRUM	1 © 7 1 0 0 30	2.00 18.00 14.00 2.00 2.00 2.00 60.00	720 710 24 100 96 2	.42 17.59 1.68	113 32	322 163 61 345 151 72 162	27 · £ ·

TOTALS

50 100.00 5582 59.96

NUMBER OF DAYS SAMPLED DURING THIS MONTH WAS 2

TABLE

MONTHLY IMPINGEMENT SUMMARY FOR JUNE MIAMI FORT GENERATING STATION

COMMON	TOTAL	PERCENT	TOTAL	PERCENT	LENGTH		
NAME	NUMBER	BY NUMBER	WEIGHT	BY WEIGHT	MIN	MEAN	K A M
gain ann agu gan gan gan gan ann ann ann ann ann ann	er waar ange ange gaar dan						
FRESHWATER DRUM	216	67.92	1606	63.08	28	48	217
SKIPJACK HERRING	25	7.86	44	1.73	29	5 1	65
GIZZARD SHAD	21	6.60	39	1.53	28	46	7:
WHITE BASS		3.46	3	.31	24	33	5 1
SAUGER	T	2.20	496	19.48	61	122	340
EMERALD SHINER	5	1.57	4	.16	6	36	55
BLUEGILL	3	. 94	27	1.06	29	54	84
PADDLEFISH	<u>©</u>	.63	1	.04		8	
WHITE CRAPPIE	Ō	.31	318	12.49		223	
RIVER CARPSUCKER	1	.31	1	. 04		29	
QUILLBACK	1	.31	1	. 04		36	
CHANNEL CATFISH	Φ	.31	1	.04		27	
NOT IDENTIFIED	24	7.55					
TOTALS	318	99.97	2546	100.00			

NUMBER OF DAYS SAMPLED DURING THIS MONTH WAS 5